ACCLAIM LIGHTING

AL-Stick-500/1000

User Manual

AL-Stick-500-RGB, 24 in RGB SMD LEDs & Length=500mm
AL-Stick-500-CW, 24 in Cool White SMD LEDs & Length=500mm
AL-Stick-500-WW,24 in Warm White SMD LEDs & Length=500mm
AL-Stick-1000-RGB, 48 in RGB SMD LEDs & Length=1000mm
AL-Stick-1000-CW, 48 in Cool White SMD LEDs & Length=1000mm
AL-Stick-1000-WW,48 in Warm White SMD LEDs & Length=1000mm

☞ PRODUCTION DESCRIPTION

AL-Stick-500/1000 is a simple 24/48 in SMD LEDs strip lighting fixture, LEDs is available in RGB, Cool White and Warm White version. For the RGB version, AL-Stick-500/1000 is fully DMX control, has the capability of manually dip switch-addressing, preset programs selecting with fade-time and chasing speed. And for the Cool White and Warm White version, it features constant lighting.

With its extrusion aluminum housing, compact profile and slim design, it features in-line power/data connectors that allow a run to turn up to 180deg, reducing installation time. The mounting bracket provides 180deg aiming rotation.

Power and data are supplied by an external PSU and a standard DMX controller. It allows more fixtures to be connected in a single run or divided into two runs. End-to-end is the preferred method of installation. However, jumper cables are available for areas that require spacing.

A system connection should be set up before operation. It is great for advertisement signs, architecture decoration and entertaining applications. From large-scale commercial installations to simpler residential applications, AL-Stick-500/1000 delivers color changing light and lighting effects to alcoves, task areas, accent areas, back lighting, edge lighting and other confined spaces.

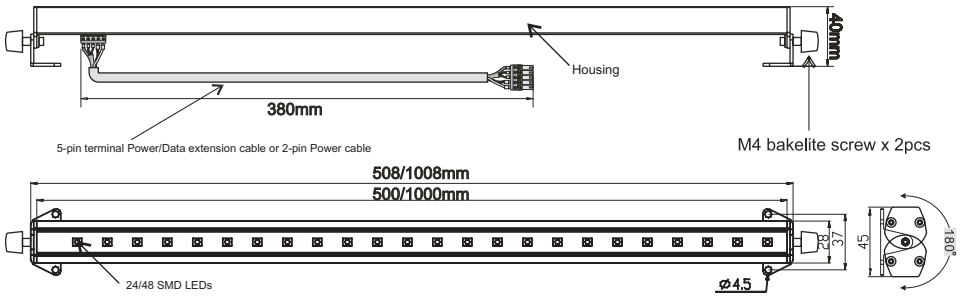
☞ TECHNICAL SPECIFICATIONS

☐ COLOR RESOLUTION	24 Bit (RGB version)
☐ COLOR RANGE	16.7 million of additive RGB colors with variable intensity(for RGB version)
☐ LIGHT SOURCE	24 in RGB/Cool White/Warm White SMD LEDs(AL-Stick-500), 48 in RGB/Cool White/Warm White SMD LEDs(AL-Stick-1000) High Bright LED(Light Emitting Diodes)
☐ SOURCE LIFE	50,000 hours under normal operating condition
☐ OPERATION VOLTAGE	24VDC
☐ VIEWING ANGLE	120 deg
☐ CURRENT CONSUMPTION	200mA(AL-Stick-500), 380mA(AL-Stick-1000)
☐ HOUSING	Extrusion aluminum
☐ ENVIRONMENT	Indoor only
☐ CONTROL	USITT DMX-512(1990) protocol, for RGB version Constant Lighting, for SC(Single Color) Version
☐ CONNECTION	Terminal
☐ LISTING	CE certified
☐ OPERATING TEMPERATURE	Range -20degC ~ +50degC
☐ SIZE	500/1000(L) x 48(W) x 40(H)mm
☐ NET WEIGHT	300g(AL-Stick-500), 480g(AL-Stick-1000)
☐ ACCESSORY	Fix stand(x2pcs) + Power/Data extension cable per unit

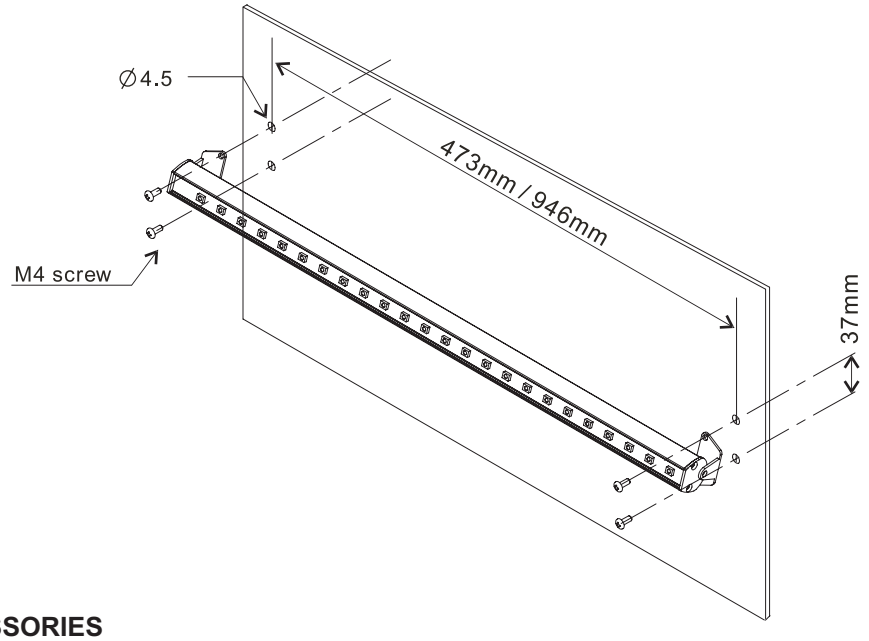
☞ NOTICE:

All rights reserved! Specifications and improvement in the design of the unit and this manual are subject to change without prior notice.

☞ PHYSICAL DIMENSIONS

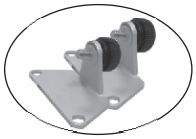


☞ MOUNTING

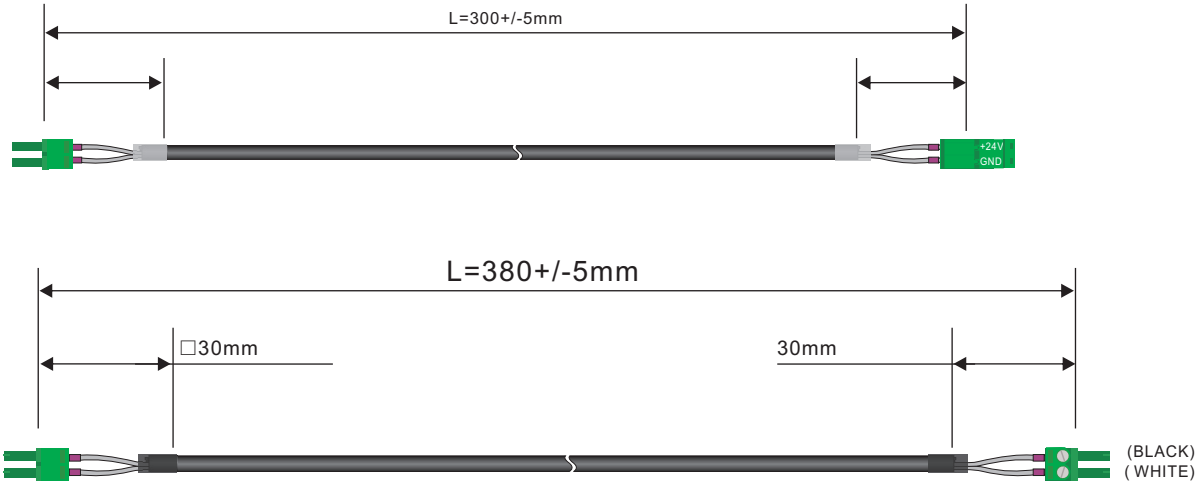


☞ ACCESSORIES

1) Fix stand(x2pcs)

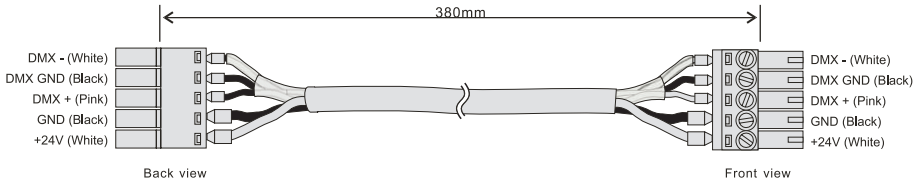


2Power cable x1pcs



A maximum of 30pcs AL-Stick-500(s) can be connected together, and total in 15pcs AL-Stick-1000(s).

3) Power/Data extension cable (for connection between units, RGB version)x2pcs



Power/Data extension cable of AL-Stick-500/1000-RGB, L=380mm, DC24V, 6A Max.
A maximum of 30pcs AL-Stick-500-RGB(s) can be connected together, and total in 15pcs AL-Stick-1000-RGB(s).

☞ OPERATING GUIDE*(For RGB version)*

DMX Address Setting-DMX Control Mode

DMX is short for Digital Multiplex. This is a universal binary language used as a form of communication between intelligent fixtures. Each dip switch represents a binary value.

Dip Switch 1 address equals 1
Dip Switch 2 address equals 2
Dip Switch 3 address equals 4
Dip Switch 4 address equals 8
Dip Switch 5 address equals 16
Dip Switch 6 address equals 32
Dip Switch 7 address equals 64
Dip Switch 8 address equals 128
Dip Switch 9 address equals 256

DMX ADDRESS (SLAVE)
(Dip Switch 10 = on)

START CH#	SWITCHES ON	START CH#	SWITCHES ON
1	1	11	1,2,4
2	2	12	3,4
3	1,2	13	1,3,4
4	3	14	2,3,4
5	1,3	15	1,2,3,4
6	2,3	:	:
7	1,2,3	:	:
8	4	:	:
9	1,4	:	:
10	2,4	511	1,2,3,4,5,6,7,8,9

In this mode, the dip-switch 10 is flipped to the "ON" position. And this switch sometimes used to activate some fixture special functions. A DMX value(address) is set by combining the different dipswitches that will add up to the value you wish to achieve, for example:

Setting DMX address for 21.
Flip switches1,3,&5 to the "ON" position

Dipswitches#		Value
	1=1	
	3=4	
	5=16	
	=21	

Setting DMX address for 201.
Flip switches1,4,7,& 8 to the "ON" position

Dipswitches#		Value
	1=1	
	4=8	
	7=64	
	8=128	
	=201	

Stand Alone Mode

User can activate the Stand Alone Mode by flipping the dip-switch 10 to the "OFF" position. And this mode includes sub-modes with many functions, such as fade time, chasing speed, built-in programs.

Setting fade time

In Stand Alone Mode, fade time can be set up by flipping the dip-switch1,2&3 to "ON" or "OFF" position separately at the range of 0~100%.

FADE TIME
(Dip Switches 10 = off)

"0" = "OFF" position
"1" = "ON" position.

000	0%
100	14%
010	28%
110	43%
001	57%
101	71%
011	86%
111	100%

Adjusting chase speed

In Stand Alone Mode, chasing speed can be adjusted by flipping the dip-switch 4,5 & 6to "ON" or "OFF" position separately at the range of 0.1S~30S.

SPEED
(Dip Switches 10 = off)

"0" = "OFF" position
"1" = "ON" position.

000	0.1S
100	0.2S
010	0.5S
110	1S
001	5S
101	10S
011	20S
111	30S

Selecting Built-in programs

In Stand Alone mode, built-in programs1~7 and Auto program can be and selected and chased by flipping the dip-switch7,8 & 9 to "ON" or "OFF" position separately.

PROGRAM
(Dip Switches 10 = off)

"0" = "OFF" position
"1" = "ON" position.

AUTO=a sequence of 7 programs

000	1
100	2
010	3
110	4
001	5
101	6
011	7
111	AUTO

Vision Advisory Claim:

Users should be cautioned not to stare at the light of this LED product. The bright light can damage the eye.